

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|--|-----------------|----------------------|-------------------------|-------------------------|--|
| 10/658,520 | 09/09/2003 | Shigeaki Fukushima | 6340-000039 | 1939 | |
| 27572 | 7590 07/11/2005 | | EXAMINER | | |
| HARNESS, DICKEY & PIERCE, P.L.C. | | | BINDA, GREGORY JOHN | | |
| P.O. BOX 828 BLOOMFIELD HILLS, MI 48303 | | | ART UNIT | PAPER NUMBER | |
| | , | | 3679 | | |
| | | | DATE MAILED: 07/11/2003 | DATE MAILED: 07/11/2005 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | مری | | | |
|--|---|--|--|--|
| | Application No. | Applicant(s) | | |
| Office Antique Commons | 10/658,520 | FUKUSHIMA ET AL. | | |
| Office Action Summary | Examiner | Art Unit | | |
| | Greg Binda | 3679 | | |
| The MAILING DATE of this communication app Period for Reply | pears on the cover sheet with | the correspondence address | | |
| A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a reply y within the statutory minimum of thirty (3 vill apply and will expire SIX (6) MONTH , cause the application to become ABAN | y be timely filed 10) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133). | | |
| Status | • | | | |
| 1)⊠ Responsive to communication(s) filed on <u>01 July</u> 2a)□ This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for alloward closed in accordance with the practice under E | action is non-final. | | | |
| Disposition of Claims | | | | |
| 4) ⊠ Claim(s) <u>1-9</u> is/are pending in the application. 4a) Of the above claim(s) <u>2 and 6</u> is/are withdres 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,3-5 and 7-9</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or | | | | |
| Application Papers | | | | |
| 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on <u>various</u> is/are: a) ☐ ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Example 2. | cepted or b) \boxtimes objected to be drawing(s) be held in abeyance tion is required if the drawing(s) | e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d). | | |
| Priority under 35 U.S.C. § 119 | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ■ All b) ■ Some * c) ■ None of: 1. ■ Certified copies of the priority documents have been received. 2. ■ Certified copies of the priority documents have been received in Application No. ■ 3. ■ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/9/03. | | Mail Date rmal Patent Application (PTO-152) | | |

Election/Restrictions

1. Applicant's election with traverse of Species I shown in Figs. 1-3 in the reply filed on June 1, 2005 is acknowledged. The traversal is on the ground(s) that a search and examination of the entire application can be made without serious burden. This is not found persuasive because it does address the patentably of any one of the species with regard to each of the other species. Thus applicant has failed to submit valid grounds for overcoming the election requirement. See MPEP § 808.01(a).

The requirement is still deemed proper and is therefore made FINAL.

- In a phone communication to the examiner on June 30, applicant's representative, D. Taylor, identified all of the claims depending from claims 1 & 2 as reading on the elected species.
- 3. Claims 2 & 6 have been withdrawn from further consideration pursuant to 37 CFR
 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking
 claim. Applicant timely traversed the restriction (election) requirement in the reply filed on June
 1, 2005.

Although applicant identified claims 2 & 6 as reading on the elected species, these claims have been withdrawn because they recite structure not included in the elected species but is instead particular to unelected species. The 'inner ring" recited at claim 2, line 6 and claim 6, line does not appear in the elected species, but rather appears in unelected species shown in Figs. 7-11.

Application/Control Number: 10/658,520 Page 3

Art Unit: 3679

Drawings

- The drawings are objected to because reference numeral 5 is used to identified a feature in Fig. 2a and reused to identified a modified such feature in Fig. 2b. Such usage is proscribed.

 See MPEP § 608.02(e).
- 5. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Application/Control Number: 10/658,520 Page 4

Art Unit: 3679

Specification

6. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

7. The specification is objected to as failing to provide proper antecedent basis for the limitations at lines 4 & 7 of claim 3.

Claim Objections

- 8. Claim 3 is objected to because line 2 includes the nonsensical limitation, "one inner raceway surfaces"
- 9. Claims 3-6 are objected to as failing to comply with 37 CFR 1.75(i) because elements of the claims are not separated by line indentation.

Claim Rejections - 35 USC § 112

- 10. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 11. Claims 3-5, 7 & 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 3 recites the limitation "the fitted portion" in lines 4 & 5. There is insufficient antecedent basis for this limitation in the claim.

Application/Control Number: 10/658,520

Art Unit: 3679

Claim Rejections - 35 USC § 103

Page 5

12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1, 3-5 & 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 2003-089301. Figs. 1 & 2 show a bearing apparatus comprising all the structural limitations of the claims, but JP 2003-089301 does not expressly disclose that the axial pull-out force of the plastic deformation connection mechanism 18 would be more than 160kN. However, it would have been obvious to one of ordinary skill in the art to design the bearing apparatus of JP 2003-0893011 such that the axial pull-out force of the plastic deformation connection mechanism 18 would be more than 160kN, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

(Note: Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.)

14. Claims 1 & 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sera et al. US 2002/0051597 (Sera). Fig. 7shows a bearing apparatus for a driving wheel of a vehicle comprising: a wheel hub 80, a constant velocity universal joint 70 and a double row rolling

Art Unit: 3679

bearing 23 assembled as a unit, the wheel hub and an outer joint part member 70 of the constant velocity universal joint are fitted with each other; and a connected portion of the wheel hub and the outer joint member has a plastic deformation mechanism 75. Sera does not expressly disclose that the axial pull-out force of the plastic deformation connection mechanism would be more than 160kN. However, it would have been obvious to one of ordinary skill in the art to design the bearing apparatus of Sera such that the axial pull-out force of the plastic deformation connection mechanism would be more than 160kN for the same reason noted immediately above.

15. Claims 1, 3-5 & 7-9 are rejected under 35 U.S.C. 103(a) as being obvious over any one of U. S. Patent Nos. 6,497,515; 6,773,165 and 6,780,114

Each applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing dates of the references, each constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the

reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(l)(1) and § 706.02(l)(2).

Double Patenting

- Applicant is advised that should claim 4 be found allowable, claim 5 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).
- 17. Claims 1, 3-5 & 7-9 are directed to an invention not patentably distinct from claims 1-24 of commonly assigned US 6,497,515 and claims 1-16 of commonly assigned US 6,773,165. Specifically, it would have obvious to make the bearing apparatus in the patented claims so that it includes all the limitations of the bearing apparatus in the instant claims for the same reason noted in item 13 above.
- The U.S. Patent and Trademark Office normally will not institute an interference between applications or a patent and an application of common ownership (see MPEP § 2302).

 Commonly assigned US 6,497,515, discussed above, would form the basis for a rejection of the noted claims under 35 U.S.C. 103(a) if the commonly assigned case qualifies as prior art under 35 U.S.C. 102(e), (f) or (g) and the conflicting inventions were not commonly owned at the time the invention in this application was made. In order for the examiner to resolve this issue, the

Application/Control Number: 10/658,520

Art Unit: 3679

assignee can, under 35 U.S.C. 103(c) and 37 CFR 1.78(c), either show that the conflicting inventions were commonly owned at the time the invention in this application was made, or name the prior inventor of the conflicting subject matter.

A showing that the inventions were commonly owned at the time the invention in this application was made will preclude a rejection under 35 U.S.C. 103(a) based upon the commonly assigned case as a reference under 35 U.S.C. 102(f) or (g), or 35 U.S.C. 102(e) for applications filed on or after November 29, 1999.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1, 3-5 & 7-9 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-24 of U.S. Patent No. 6,497,515 and claims 1-16 of U.S. Patent No. 6,773,165. Although the conflicting claims are not identical, they are not patentably distinct from each other for the same reason noted in item 17 above.

Application/Control Number: 10/658,520

Art Unit: 3679

Conclusion

Page 9

21. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sahashi et al shows bearing apparatus.

22. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Greg Binda whose telephone number is (571) 272-7077. The examiner can normally be reached on M-F 9:30 am to 7:00 pm with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (571) 272-7087. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Greg Binda Primary Examiner

Myrisul

Art Unit 3679